

FIG. 1

1 CCAGGGCCAG GTAGCCTGTG GTGCCCTGA TGTGGGCTTG AGGAGAGCCA TCCTCAGGGT
 61 GCTGCTGCCG CCGCCGCCGC CGGGGGCTAG TCTCCTGCCG CTGCTGTAAA CAGGCACCGG
 121 GAGGTGCTAT GCTAGCGGCC TCAGGGTGCC TGGGGCCCG GTTCTGGATC GCTTCGCGCA
 181 CGCTCTGGAA CAGATTCTGG AACGCTCCTC GATAGGTCTT GGACGGGGGC CGTGGGTAGA
 241 CCCTTCCCAG CCCTAAGTC ACCTCCATCC TAATCGAATT CCCGCAGGCCG GGAAGCTAGC
 301 TAGGATCCAA GAATTGGGG CCGCGGAGGC TGGATCGGTC CCGGTGTCTT CTATGGAGGT
 361 CAAAACAGCG TGGATGGCGT CTCCAGCGA TCTGACGTT CACTAAACGA GCTCTGCTTA
 421 TATAGACCTC CCACCGTACA CGCCTACCGC CCATTTGCGT CAATGGGGCG GAGTTGTTAC
 481 GACATTGGG AAAGTCCCCT TGATTTGGT GCCAAAACAA ACTCCCATTG ACGTCAATGG
 541 GGTGGAGACT TGGAAATCCC CGTGAGTCAA ACCGCTATCC ACGCCCATGG ATGTACTGCC
 601 AAAACCGCAT CACCATGGTA ATAGCGATGA CTAATACGA GATGTAATGC CAAGTAGGAA
 661 AGTCCCATAA GGTCTGTAC TGGGCATAAT GCCAGGGGGG CCATTTACCG TCATTGACGT
 721 CAATAGGGGG CGTACTTGGC ATATGATACA CTTGATGTAC TGCCAAGTGG GCAGTTTACC
 781 GTAAATACTC CACCCATTGA CGTCAATGGG AAGTCCCTAT TGGCGTTACT ATGGGAACAT
 841 ACGTCATTAT TGACGTCAAT GGGGGGGG CGTTGGGGG TCAGGCCAGG GGGCCATTAA
 901 CCGTAAGTTA TGTAACGCGG AACTCCATAT ATGGGCTATG AACTAATGAC CCCGTAATTG
 961 ATTACTATTA ATAACATAGTC AATAATCAAT GTCAACATGG CGGTAAATGTT GGACATGAGC
 1021 CAATATAAAAT GTACATATTA TGATATGGAT ACAACGTATG CAATGGGCCA AGCTCCTCGA
 1081 GAATCGCGAG GTACAGCTGC CACCGTTGTT TCCACCGAAG AAACCCACCGT TGCGTAACC
 1141 ACCACGACGG TTGTTGCTAA AGAAGCTGCC ACCGCCACGG CCACCGTTGT AGCCGCCGTT
 1201 GTTGTATTG TAGTTGCTAC TGTTATTCT GGCACCTCTT GGTTTCCCTC TTAAGTGAGG
 1261 AGGAACATAA CCATTCTCGT TGTTGTCGTT GATGCTTAAA TTTGCACTT GTTCGCTCAG
 1321 TTCAGGCCATA ATATGAAATG CTTTCTTGT TGTTCTTACG GAATACCACT TGCCACCTAT
 1381 CACCACAAC AACTTTTCC CGTTCTCCA TCTCTTTAT ATTTTTTTC TCGACTTTA
 1441 TATTTTTTT ATCGAGGGAT CTTTGTGAAG GAACCTTACT TCTGTGGGTG GACATAATTG
 1501 GACAAACATAC CTACAGAGAT TAAAGCTCT AAGGTAATAA TAAATTTT AAGTGTATAA
 1561 TGTGTTAAC TACTGATTCT AATTGTTGT GTATTTAGA TTCCAACCTA TGGAACGTGAT
 1621 GAATGGGAGC AGTGGTGGAA TGCCTTAAT GAGGAAAACC TGTTTGTCT AGAAGAAATG
 1681 CCATCTAGTG ATGATGAGGC TACTGCTGAC TCTCAACATT CTACTCCTCC AAAAAAGAAG
 1741 AGAAAGGTAG AAGACCCCCA GGACTTTCCCT TCAGAATTC TAAGTTTTT GAGTCATGCT
 1801 GTGTTAGTA ATAGAACTCT TGCTGCTTT GCTATTTACA CCACAAAGGA AAAAGCTGCA
 1861 CTGCTATACA AGAAAATTAT GGAAAAATAT TCTGTAACCT TTATAAGTAG GCATAACAGT
 1921 TATAATCATCA ACATACTGTT TTTCTTACT CCACACAGGC ATAGAGTGTG TGCTATTAAT
 1981 AACTATGCTC AAAAATTGTC TACCTTCTG TTTTTAATT GTAAAGGGGT TAATAAGGAA
 2041 TATTTGATGT ATAGTGCCTT GACTAGAGAT CATAATCAGC CATACACAT TTGTAGAGGT
 2101 TTTACTTGCT TTAAAAAACC TCCCACACCT CCCCCTGAAC CTGAAACATA AAATGAATGC
 2161 AATTGTTGTT GTTAACCTGT TTATTGCGC TTATAATGGT TACAATAAAA GCAATAGCAT
 2221 CACAAATTTC ACAAAATAAG CATTTCCTC ACTGCATCT AGTGTGGTT TGTCCAAACT
 2281 CATCAATGTA TCTTATCATG TCTGGATCTG ACATGGTAAG TAAGCTCGAC GCGGCCGATC
 2341 TTAGATCTCG TCCTGAAGGA ACGGAACAGA CTGATCGAGT CCTGAAGGAA CGGAACAGAC
 2401 TGATCGAGAT CTGCGATCTG CATCTCAATT AGTCAGCAAC CATAGTCCCG CCCCTAACTC
 2461 CGCCCATCCC GCCCCTAACT CCGCCCAAGTT CGGCCCATC TCCGCCCAT CGCTGACTAA
 2521 TTTTTTTAT TTATGCGAG GCGAGGGCG CCTCGGCCTC TGAGCTATT CAGAAGTAGT
 2581 GAGGAGGCTT TTTGGAGGC CTAGGCTTT GCAAAAGCT TGGCATTCCG GTACTGTTGG
 2641 TAAAGCCACC ATGGAAGACG CCAAAACAT AAAGAAAGGC CGGGCGCCAT TCTATCCGCT
 2701 GGAAGATGGA ACCGCTGGAG AGCAACTGCA TAAGGCTATG AAGAGATACG CCCTGGTTCC
 2761 TGGAAACAATT GCTTTACAG ATGCAACATAT CGAGGTGGAC ATCACTTACG CTGAGTACTT
 2821 CGAAATGTCC GTTCGGTTGG CAGAAGCTAT GAAACGATAT GGGCTGAATA CAAATCACAG
 2881 AATCGTCGTA TGCAGTAAA ACTCTCTTCA ATTCTTATG CCGGTGTGG GCGCGTTATT
 2941 TATCGGAGTT GCAGTTGCCG CCGCGAACGA CATTATATAA GAACTGTAAAT TGCTCAACAG
 3001 TATGGGCATT TCGCAGCCTA CCGTGGTGT CGTTTCCAAA AAGGGGTTGC AAAAAATTGTT
 3061 GAACGTGCAA AAAAGCTCC CAATCATCCA AAAAATTATT ATCATGGATT CTAAACGGA
 3121 TTACCAAGGGA TTTCAGTCGA TGTACACGTT CGTCACATCT CATCTACCTC CCGGTTTAA

FIG. 2A

3181 TGAATACGAT TTTGTGCCAG AGTCCTTCGA TAGGGACAAG ACAATTGCAC TGATCATGAA
 3241 CTCCTCTGGA TCTACTGGTC TGCCTAAAGG TGTCGCTCTG CCTCATAGAA CTGCCTGCGT
 3301 GAGATTCTCG CATGCCAGAG ATCCTATTT TGGCAATCAA ATCATTCCGG ATACTGCGAT
 3361 TTTAAGTGTGTT GTTCCATTCC ATCACGGTT TGGATGTT ACTACACTCG GATATTGAT
 3421 ATGTGGATTT CGAGTCGTCT TAATGTATAG ATTTGAAGAA GAGCTGTTTC TGAGGAGCCT
 3481 TCAGGATTAC AAGATTCAA GTGCCTGCT GGTGCCAAC CTATTCTCCT TCTTCGCCAA
 3541 AAGCACTCTG ATTGACAAAT ACGATTATC TAATTACAC GAAATTGCTT CTGGTGGCGC
 3601 TCCCCTCTCT AAGGAAGTCG GGGAGCGGT TGCAAGAGG TTCCATCTGC CAGGTATCAG
 3661 GCAAGGATAT GGGCTCACTG AGACTACATC AGCTATTCTG ATTACACCCG AGGGGGATGA
 3721 TAAACCGGGC GCGGTCGGTA AAGTTGTTCC ATTTTGAA GCGAAGGTTG TGGATCTGGA
 3781 TACCGGGAAA ACGCTGGCG TTAATCAAAG AGGCGAACTG TGTGAGAG GTCCTATGAT
 3841 TATGTCCGGT TATGTAAACA ATCCCGAAC GACCAACGCC TTGATTGACA AGGATGGATG
 3901 GCTACATTCT GGAGACATAG CTTACTGGGA CGAAGACGAA CACTCTTCA TCGTTGACCG
 3961 CCTGAAGTCT CTGATTAAGT ACAAAGGCTA TCAGGTGGCT CCCGCTGAAT TGAATCCAT
 4021 CTTGCTCCAA CACCCCAACA TCTTCGACGC AGGTGTCGCA GGTCTCCCG ACGATGACGC
 4081 CGGTGAACCT CCCGCCGCCG TTGTTGTTT GGAGCACCGA AAGACGATGA CGGAAAAAGA
 4141 GATCGTGGAT TACGTCGCCA GTCAAGTAAC AACCGCGAA AAGTTGCGCG GAGGAGTTGT
 4201 GTTTGTGGAC GAAGTACCGA AAGGTTTAC CGGAAAACCT GACCGAAGAA AAATCAGAGA
 4261 GATCCTCATA AAGGCCAAGA AGGGCGGAA GATGCGCGT TAATTCTAGA GCTGAGAACT
 4321 TCAGGGTGAG TTTGGGACC CTTGATTGTT CTTTCTTTT CGCTATTGTA AAATTCTATG
 4381 TATATGGAGG GGGCAAAGTT TTCAGGGTGT TGTGTTAGAAT GGGAAAGATGT CCCTTGATC
 4441 ACCATGGACC CTCATGATAA TTTGTTTCT TTCACTTCT ACTCTGTTGA CAACCATTGT
 4501 CTCCTCTTAT TTTCTTTCA TTTCTGTAA CTTTTCTGTT AAACCTTTCG TTGCATTG
 4561 AACGAATTT TAAATTCACT TTTGTTTATT TGTCAGATTG TAAGTACTTT CTCTAACAC
 4621 TTTTTTTCA AGGCAATCAG GGTATATTAT ATTGTACTTC AGCACAGTTT TAGAGAACAA
 4681 TTGTTATAAT TAAATGATAA GGTAGAATAT TTCTGCATAT AAATTCTGGC TGGCGTGGAA
 4741 ATATTCTTAT TGGTAGAAAC AACTACACCC TGGTCATCAT CCTGCCTTTC TCTTTATGGT
 4801 TACAATGATA TACACTGTTT GAGATGAGGA TAAAATACTC TGAGTCCAAA CGGGCCCC
 4861 CTGCTAACCA TGTTCATGCC TTCTCTCTT TCCTACAGCT CCTGGCAAC GTGCTGTTG
 4921 TTGCTGTGTC TCATCATTTC GGCAAGAAT TAATTCACTC CTCAGGTGCA GGCTGCCTAT
 4981 CAGAAGGTGG TGGCTGGTGT GGCAATGCC CTGGCTCACA AATACCACTG AGATCGATCT
 5041 TTTCCCTCT GCCAAAATT ATGGGGACAT CATGAAGCCC CTTGAGCATC TGACTTCTGG
 5101 CTAATAAAGG AAATTATTTC TCATTGCAAT AGTGTGTTGG AATTTTTTGT GTCTCTCACT
 5161 CGGAAGGATT AATTAGGCC GCCCTATTAA TATAGGTAA TGTCATGATA ATAATGGTTT
 5221 CTTAGACGTC AGGTGGCACT TTTGGGGAA ATGTGCGCGG AACCCATT TGTTTATTT
 5281 TCTAAATACA TTCAAATATG TATCCGCTCA TGAGACAATA ACCCTGATAA ATGCTTCAT
 5341 AATATTGAAA AAGGAAGAGT ATGAGTATTAC AACATTCCG TGTCGCCCTT ATTCCCTTT
 5401 TTGCGGCATT TTGCTTCCT GTTTTGCTC ACCCAGAAC GCTGGTGAAA GTAAAAGATG
 5461 CTGAAGATCA GTTGGGTGCA CGAGTGGTT ACATCGAATC GGATCTCAAC AGCGGTAAAGA
 5521 TCCTTGAGAG TTTTCGCCCC GAAGAACGTT TTCAATGAT GAGCACTTTT AAAGTTCTGC
 5581 TATGTGGCGC GGTATTATCC CGTGGTGCAG CGGGCAAGA GCAACTCGGT CGCCGCATAC
 5641 ACTATTCTCA GAATGACTTG GTTGAGTACT CACCAGTCAC AGAAAAGCAT CTTACGGATG
 5701 GCATGACAGT AAGAGAATTA TGCAGTGCTG CCATAACCAC GAGTGATAAC ACTGCGGCCA
 5761 ACTTACTTCT GACAACGATC GGAGGACCGA AGGAGCTAAC CGCTTTTTG CACAACATGG
 5821 GGGATCATGT AACTCGCCTT GATCGTTGGG AACCGGAGCT GAATGAAGCC ATACCAAACG
 5881 ACGAGCGTGA CACCACGATG CCTGTAGCAA TGGCAACAC GTTGCAGCAA CTATTAACG
 5941 GCGAACTACT TACTCTAGCT TCCCGCAAC AATTAATAGA CTGGATGGAG GCGGATAAAG
 6001 TTGCAGGACC ACTTCTGCGC TCGGCCCTC CGGCTGGCTG GTTATTGCT GATAATCTG
 6061 GAGCCGGTGA GCGTGGGTCT CGCGTATCA TTGCACT GGGCCAGAT GGTAAGCCCT
 6121 CCCGTATCGT AGTTATCTAC ACGACGGGA GTCAGGCAAC TATGGATGAA CGAAATAGAC
 6181 AGATCGCTGA GATAGGTGCC TCACTGATTA AGCATTGTA ACTGTCAGAC CAAGTTTACT
 6241 CATATATACT TTAGATTGAT TAAACACTTC ATTTTAATT TAAAGGATC TAGGTGAAGA
 6301 TCCTTTTGA TAATCTCATG ACCAAAATCC CTTAACGTGA GTTTCGTTTC CACTGAGCGT

FIG. 2B

6361 CAGACCCCCGT AGAAAAGATC AAAGGATCTT CTTGAGATCC TTTTTTTCTG CGCGTAATCT
 6421 GCTGCTTGCA AACAAAAAAA CCACCGCTAC CAGCGGTGGT TTGTTTGCCG GATCAAGAGC
 6481 TACCAACTCT TTTTCCGAAG GTAACTGGCT TCAGCAGAGC GCAGATACCA AATACTGTT
 6541 TTCTAGTGT A GCCGTAGTTA GGCCACCACT TCAAGAACTC TGAGCACCG CCTACATACC
 6601 TCGCTCTGCT AATCCTGTTA CCAGTGGCTG CTGCCAGTGG CGATAAGTCG TGTCTTACCG
 6661 GGTGGACTC AAGACGATAG TTACCGGATA AGGCGCAGCG GTCGGGCTGA ACGGGGGTT
 6721 CGTGCACACA GCCCAGCTT GAGCGAACGA CCTACACCGA ACTGAGATAC CTACAGCGTG
 6781 AGCTATGAGA AAGCGCCACG CTTCCCAGG GGAGAAAGGC GGACAGGTAT CCGGTAAGCG
 6841 GCAGGGTCGG AACAGGAGAG CGCACGAGGG AGCTTCCAGG GGGAAACGCC TGGTATCTT
 6901 ATAGTCCCTGT CGGGTTTCCG CACCTCTGAC TTGAGCGTCG ATTTTGTGA TGCTCGTCAG
 6961 GGGGGCGGAG CCTATGGAAA AACGCCAGCA ACAGCGGCCTT TTTACGGTTC CTGGCCTTTT
 7021 GCTGGCCTTT TGCTCACATG TTCTTCCCTG CGTTATCCCC TGATTCTGTG GATAACCGTA
 7081 TTACCGCCTT TGAGTGGCT GATACCGCTC GCCGCAGCCG AACGACCGAG CGCAGCGAGT
 7141 CAGTGAGCGA GGAAGCGGAA GAGGCCCAA TACGCAAACC GCCTCTCCCC GCGCGTTGGC
 7201 CGATTCACTTA ATGCAGCTGA ACAGGCTGGT TATAGGTACA TTGAGCAACT GACTGAAATG
 7261 CCTCAAAATG TTCTTTACGA TGCCATTGGG ATATATCAAC GGTGGTATAT CCAGTGATTT
 7321 TTTTCTCCAT TTTAGCTTCC TTAGCTCCTG AAAATCTCGC CAAGCTTGGT CGAGCTGGAT
 7381 ACTTCCCGTC CGCCAGGGGG ACATGCCGGC GATGCTGAAG GTGCGCGCA TTCCCGATGA
 7441 AGAGGCCGGT AACAGAGCTC GGCGCGCCGT TTAAACCAGA CATAAGATAC ATTGATGAGT
 7501 TTGGACAAAC CACAACCTAGA ATGCAGTGAA AAAATGCTT TATTGTGAA ATTTGTGATG
 7561 CTATTGCTTT ATTTGTAACC ATTATAAGCG GCAATAAAC AAGTAACAAAC AACAAATTGCA
 7621 TTCATTCTAT GTTTCAGGTT CAGGGGGAGG TGTGGGAGGT TTTTAAAGC AAGTAAAACC
 7681 TCTACAAATG TGGTATGGCT GATTATGATC TCTAGTCAG GCACTATACA TCAAATATTC
 7741 CTTATTAACC CTTTACAAA TTAAAAAGCT AAAGGTACAC AATTTTGAG CATAGTTATT
 7801 AATAGCAGAC ACTCTATGCC TGTGTGGAGT AAGAAAAAAC AGTATGTTCT GATTATAACT
 7861 GTTATGCCCTA CTTATAAAAGG TTACAGAATA TTTTCCATA ATTTCCTTGT ATAGCAGTGC
 7921 AGCTTTTCC TTTGTGGTGT AAATAGCAAA GCAAGCAAGA GTTCTATTAC TAAACACAGC
 7981 ATGACTCAAA AAACCTAGCA ATTCTGAAGG AAAGTCCTTG GGGCTTCTA CCTTCTCTT
 8041 CTTTTTGGGAGG GGAGTAGAAT GTTGAGAGTC AGCAGTAGCC TCATCATCAC TAGATGGCAT
 8101 TTCTTCTGAG CAAAACAGGT TTTCCATT AAAGGCATTC CACCACTGCT CCCATTATC
 8161 AGTTCCATAG GTTGAATCT AAAATACACA AACAAATTAGA ATCAGTAGTT TAACACATTA
 8221 TACACTAAA AATTTTATAT TTACCTTAGA GCTTTAAATC TCTGTAGGTA GTTTGTCCAA
 8281 TTATGTCACA CCACAGAACT AAGGTTCCCT CACAAAGATC CTCTGTACAT CAAGATCCGC
 8341 TTTCACATT CAGCTGTTT TCCAGTCCGC AGATGATCAG TTCCAGGGCG AACAGGAAGG
 8401 CTGGCTCTGC ACCCTGGTGA TCAAACAGTT CGATAGCCTG GCGCAGCAGA GGAGGCATGC
 8461 TATCAGTAGT AGGTGTTCC CTTTCTTCTT TAGCGACCTG ATGCTCCTGA TCTTCCAGCA
 8521 CGCAACCCAG AGTAAAATGT CCCACAGCGG CCGCGGGAAAT TCGATTTCAC TGTGTGTGGA
 8581 AATAGATGGG CTTGACTTTT CCAGAAAGGA TCTTGGGCAC TTGACAGAG ATGATCTCTG
 8641 CCATCATTTC AGGAAAGTCC ACGCTCACCA TATGGGACTT GATTAGCAGG TCAAAAGTGA
 8701 ATTGATGCACT CTCTCTTGCA ATAGGCTGCA CAGAATCCAG GAGCTGGTG AGCTGGTAGA
 8761 AGCGCTTGA GCAGGATGTG GGATTTTTC TTTTGCATGC AATGATGCGA TCAAGTTCC
 8821 TGATGTAGTT CATTGAGAAGT TCATCAAAGA ATTTTGATT TTTCAGCCCA TCCACTGGAA
 8881 TAATGCTGAA GAGTAGCAGT GCTTCATGC ACAGGAATTCT CTGGGGGGTT ATCTGGAGCC
 8941 ATCCAAACTC TTGAGAAAGG TGCCTCATCC TCACGCACTG GCTGTACATT CGAGACTTGT
 9001 GCATGCGATA CTCATTGAAA ACCAGGTCA GTGCAAAGTA GAGCATCCTA GAGTTGACAT
 9061 TAGTGAAGGA CCGCCAACCC ATGGCAAATA CCATCAGTCC CATCCAGGAA TACTGAATGA
 9121 CTGCCATCTG GTCATCCACA TGCAAGTGC GGAAGCCAGG CAAGGCCTTG GCCCACTTGA
 9181 CCACATGTAC AAGCTGTCTC TCGCCAAGCT CGTTGAGACT AGATAACAAG GCAGCAAAGG
 9241 AATCAGGCTG GTTGTGTCA TGTCCGGCAC ACACCACTCC TGGCTCAATG GCTTCCAGGA
 9301 CATTAAAGAAA GATAGGTTGA CATTCACTAGC CTTCAATGT TGATACAGTC ATCTTCTGGG
 9361 ATGGGTCTC AGTGGGGCTA CCAGCACTGG AGTTTCTCC TTCTTCTGT AGTTTGAGAT
 9421 TTCCAAGTTT CTTCAGCTTA CGAGCTCCCA GAGTCATCCC TGCTTCATAA CATTCCGGA
 9481 GACGACACGA TGGACAATT TTCCCTCGAA ATTTATCAAT GGTGCAATCA TTTCTGCTGG

FIG. 2C

9541 CACATAGATA CTTCTGTTTC CCTTCCGCAG CTCTTTGAA GAAGACCTTG CAGCTGCCAC
 9601 AAGTGAGAGC TCCGTAGTGA CAACCAGAAG CTTCATCTCC ACAGATCAGG CAGGTCTTCT
 9661 GGGGTGGGAA GTAATAGTCG ATGGGTAAAA CGTGGTCCT CGTACTGTCC AAACGCATGT
 9721 CCCCATAAGG TCCGGAGTAG TTCTCCATCC AAGGTCCCAT TTCACTTTA ACACAACTGG
 9781 GACTGGGATA GGGGACTCTG TTCACAACTC CGCCAGGATA CCACACTTCA GAGGCAGAGA
 9841 AGTCACCCCTC CTGGCTTGCC AGCCCCGTAG GGGGCCAGT GTAGCCATAG GGGGCTACAG
 9901 GCCCAGCATC GCTTGGGCTA CTGCTGCCGC CCCCGCTCC TGGCCATAT AATTGGCCTT
 9961 CTTCAGCTGT GAAGAGAGTA TGCCAGGAAG AAGAGGCGGT GGCTGGGGC GATCCAGTGC
 10021 TGGGTCCGGC TACACTCCCT CCATGTAGGC TAGCCAAGTC CCCATAGCGG CATTGCGCTG
 10081 CCGCCGCAGC CCAGGCCTG CCGTAGTCCA ACGGGTTCTC CAGCTTGATG CGGGCGTGTG
 10141 GATGGGTAGG GGGCGGGGGG TGCAGCGGCC CGGACAGAGC GAGCGGAAAG TTGTAGTAGT
 10201 CGCGATTCTG GTATGCTGCT GCCTCGTCTA CTGCTCCAGA CTTATACAGA GACAGTGAGG
 10261 ACGGGATCTC AAGTGTCCCAG GAGCTACCTG CTTCACTGCT GCCAGAGCAG CCCAGACTCT
 10321 CACCTTCCAA CCCTTGGCG TAACCTCCCT TGAAAGAGGA ATACTCAGCA GTCTTTCAG
 10381 TGCCCTTGCC CGGGCCTTCG TCCAGGGAAA GACCTTGCA TTCCGCCAGA GGCGCACAAAG
 10441 GAGTGGGACG CACGGCGGGT GGACCTCCCAG GGAGCGACGC GTACATGCAG TCGCCCCGAA
 10501 GCTGCTCCCC TGGACTCAGA TGTTCCAGTG CTTCCACACC CAACCCCATG GACACAGACA
 10561 CTGCTTTACA CAACTCCTTG GCACGTCAAG ATATGGTCGA ATTGCCCCCT AGGTAACATAT
 10621 CCTTGGAGGA AGAGGGAGCC CCAGTGGCCT CCCTTGCTCT CACGCTGCTG CTGCCTTCGG
 10681 ATATTACCTC CTGCTGCTGT TGCTGCTGCT GCTGCTGCTG CTGCTGCTGC TGTTGCTGTT
 10741 GCTGCTGCTG CTGAAGAAAGT TGCACTGGTC CGGCCTCGCT CAGGATGTCT TTAATGTCTG
 10801 CGGAGCAGCT GCTTAAGCCT GGGAAAGTGG GGCCCAGTAG GGACAACGTG GATGGGGCAG
 10861 CTGAGTCATC CTGATCTGGA GGAGCTGGTG GCTGCTGCGG CAGCCCCTTG CCAGGAGCCG
 10921 TGGCAGCTCC AGGCTCCGGG AGGCAAAAAC TCTCAGGGTG GCCCTCGGAG GCTGACTGCT
 10981 GCTGTGAAGG CTGCTGTTCC TCCT

FIG. 2D

2641 ATGGAAGACG CCAAAAACAT AAAGAAAGGC CCGGCGCCAT TCTATCCGCT
 2701 GGAAGATGGA ACCGCTGGAG AGCAACTGCA TAAGGCTATG AAGAGATAACG CCCTGGTCC
 2761 TGGAACAATT GCTTTACAG ATGCACATAT CGAGGTGGAC ATCACTTACG CTGAGTACTT
 2821 CGAAATGTCC GTTCGGTTGG CAGAAGCTAT GAAACGATAT GGGCTGAATA CAAATCACAG
 2881 AATCGTCGTA TGCAGTGAAA ACTCTCTCA ATTCTTTATG CCGGTGTTGG GCGCGTTATT
 2941 TATCGGAGTT GCAGTTGCGC CCGCGAACGA CATTATAAT GAACGTGAAT TGCTCACAG
 3001 TATGGGCATT TCGCAGCCTA CCGTGGTGTGTT CGTTTCAAA AAGGGGTTGC AAAAAATT
 3061 GAACGTGCAA AAAAAGCTCC CAATCATCCA AAAAATTATT ATCATGGATT CTAAAACGGA
 3121 TTACCAAGGA TTTCAGTCGA TGTACACGTT CGTCACATCT CATCTACCTC CCGGTTTAA
 3181 TGAATACGAT TTGTGCCAG AGTCCTCGA TAGGGACAAG ACAATTGCAC TGATCATGAA
 3241 CTCCTCTGGA TCTACTGGTC TGCCTAAAGG TGTCGCTCTG CCTCATAGAA CTGCCTGCGT
 3301 GAGATTCTCG CATGCCAGAG ATCCTATTGTT TGGCAATCAA ATCATTCCGG ATACTGCGAT
 3361 TTTAAGTGTGTT GTTCCATTCC ATCACGGTT TGGAATGTTT ACTACACTCG GATATTGAT
 3421 ATGTGGATTT CGAGTCGTCT TAATGTATAG ATTTGAAGAA GAGCTGTTTC TGAGGAGCCT
 3481 TCAGGATTAC AAGATTCAAA GTGCCGTGCT GGTGCCAAC CTATTCTCCT TCTTCGCCAA
 3541 AAGCACTCTG ATTGACAAAT ACGATTATC TAATTACAC GAAATTGCTT CTGGTGGCGC
 3601 TCCCCTCTCT AAGGAAGTCG GGGAAAGCGGT TGCCAAGAGG TTCCATCTGC CAGGTATCAG
 3661 GCAAGGATAT GGGCTCACTG AGACTACATC AGCTATTCTG ATTACACCCG AGGGGGATGA
 3721 TAAACCGGGC GCGGTCGGTA AAGTTGTTCC ATTTTGAA GCGAAGGTTG TGGATCTGGA
 3781 TACCGGGAAA ACGCTGGGGC TTAATCAAAG AGGCGAACTG TGTGTGAGAG GTCCTATGAT
 3841 TATGTCCGGT TATGTAAACA ATCCGGAAAGC GACCAACGCC TTGATTGACA AGGATGGATG
 3901 GCTACATTCT GGAGACATAG CTTACTGGGA CGAACAGCAA CACTTCTTCA TCGTTGACCG
 3961 CCTGAAGTCT CTGATTAAGT ACAAAAGGCTA TCAGGTGGCT CCCGCTGAAT TGGAAATCCAT
 4021 CTTGCTCCAA CACCCCCAACAA TCTTCGACGC AGGTGTGCCA GGTCTTCCCG ACGATGACGC
 4081 CGGTGAACCT CCCGCCGCCG TTGTTTTTG GGAGCACCGGA AAGACGATGA CGGAAAAAGA
 4141 GATCGTGGAT TACGTGCCA GTCAAGTAAC AACCGCGAAA AAGTTGCGCG GAGGAGTTGT
 4201 GTTTGTGGAC GAAGTACCGA AAGGTCTTAC CGGAAAACCTC GACGCCAGAA AAATCAGAGA
 4261 GATCCTCATA AAGGCCAAGA AGGGCGGAAA GATCGCCGTG TAA

FIG. 3

2341 GATCTCG TCCTGAAGGA ACGGAACAGA CTGATCGAGT CCTGAAGGAA CGGAACAGAC
2401 TGATCGAGAT CTGCGATCTG CATCTCAATT AGTCAGCAAC CATA GTCCCG CCCCTAACTC
2461 CGCCC ATCCC GCCCTAACT CCGCCCAGTT CCGCCCATTC TCCGCCCAT CGCTGACTAA
2521 TTTTTTTTAT TTATGCAGAG GCCGAGGCCG CCTCGGCCTC TGAGCTATT CAGAAGTAGT
2581 GAGGAGGCC TTGAGGCTT CTAGGCTTT GCAAA

FIG. 4

268 ATGGAGGTGC AGTTAGGGCT GGGAAAGGGTC TACCCACGGC CCCCGTCCAA GACCTATCGA
 208 GGAGCGTTCC AGAATCTGTT CCAGAGCGTG CGCGAACCGA TCCAGAACCC GGGCCCCAGG
 148 CACCCCTGAGG CCGCTAGCAT AGCACCTCCC GGTGCCTGTT TACAGCAGCG GCAGGAGACT
 88 AGCCCCCGGC GGCAGGGGGC GCAGCAGCAC CCTGAGGATG GCTCTCCTCA AGCCCCACATC
 28 AGAGGCACCA CAGGCTACCT GGCCCTGGAG GAGGAACAGC AGCCTTCACA GCAGCAGTCA
 10972 GCCTCCGAGG GCCACCCCTGA GAGTTTTGC CTCCCGGAGC CTGGAGCTGC CACGGCTCCT
 10912 GGCAAGGGGC TGCCGAGCA GCCACCAGCT CCTCCAGATC AGGATGACTC AGCTGCCCA
 10852 TCCACGTTGT CCCTACTGGG CCCCACCTTC CCAGGCTAA GCAGCTGCTC CGCAGACATT
 10792 AAAGACATCC TGAGCGAGGC CGGCACCATG CAACTTCTTC AGCAGCAGCA GCAACAGCAA
 10732 CAGCAGCAGC AGCAGCAGCA GCAGCAGCAG CAACAGCAGC AGGAGGTAAT ATCCGAAGGC
 10672 AGCAGCAGCG TGAGAGCAAG GGAGGCCACT GGGGCTCCT CTTCTCCTAA GGATAGTTAC
 10612 CTAGGGGGCA ATTGACCAT ATCTGACAGT GCCAAGGAGT TGTGAAAGC AGTGTCTGTG
 10552 TCCATGGGGT TGGGTGTGGA AGCACTGGAA CATCTGAGTC CAGGGGAGCA GCTTCGGGGC
 10492 GACTGCATGT ACGCGTCGCT CCTGGGAGGT CCACCCGGC TGCGTCCCAC TCCTTGTGCG
 10432 CCTCTGGCCG AATGCAAAGG TCTTCCCTG GACGAAGGCC CGGGCAAAGG CACTGAAGAG
 10372 ACTGCTGAGT ATTCCCTCTT CAAGGGAGGT TACGCCAAAG GGTGGAAGG TGAGAGTCTG
 10312 GGCTGCTCTG GCAGCAGTGA AGCAGGTAGC TCTGGGACAC TTGAGATCCC GTCCCTACTG
 10252 TCTCTGTATA AGCTGGAGC AGTAGACGAG GCAGCAGCAT ACCAGAACATCG CGACTACTAC
 10192 AACTTCCGC TCGCTCTGTC CGGGCCGCCG CACCCCCCGC CCCCTACCCA TCCACACGCC
 10132 CGCATCAAGC TGGAGAACCC GTTGGACTAC GGCAGCGCCT GGGCTGCGGC GGCAGCGCAA
 10072 TGCGCTATG GGGACTTGGC TAGCTACAT GGAGGGAGTG TAGCCGGACC CAGCACTGGA
 10012 TCGCCCCCAG CCACCGCCTC TTCTTCTGG CATACTCTCT TCACAGCTGA AGAAGGCCAA
 9952 TTATATGGC CAGGAGGCGG GGGCGGCAGC AGTAGCCAA GCGATGCTGG GCCTGTAGCC
 9892 CCCTATGGCT ACACCGGGC CCCTCAGGGG CTGGCAAGCC AGGAGGGTGA CTTCTCTGCC
 9832 TCTGAAGTGT GGTATCCTGG CGGAGTTGTG AACAGAGTCC CCTATCCCAG TCCCAGTTGT
 9772 GTTAAAAGTG AAATGGGACC TTGGATGGAG AACTACTCCG GACCTTATGG GGACATGCGT
 9712 TTGGACAGTA CCAGGGACCA CGTTTACCC ATCGACTATT ACTTCCCACC CCAGAAAGACC
 9652 TGCCTGATCT GTGGAGATGA AGCTTCTGGT TGTCACTACG GAGCTCTCAC TTGTGGCAGC
 9592 TGCAAGGTCT TCTTCAAAAG AGCTCGGAA GGGAAACAGA AGTATCTATG TGCCAGCAGA
 9532 AATGATTGCA CCATTGATAA ATTTGGAGG AAAAATTGTC CATCGTGTG TCTCCGGAAA
 9472 TGTATGAAG CAGGGATGAC TCTGGGAGCT CGTAAGCTGA AGAAAATTGG AAATCTCAAA
 9412 CTACAGGAAG AAGGAGAAAA CTCCAGTGT GGTAGCCCCA CTGAGGACCC ATCCCAGAAG
 9352 ATGACTGTAT CACACATTGA AGGCTATGAA TGTCAACCTA TCTTCTTAA TGTCTGGAA
 9292 GCCATTGAGC CAGGAGTGGT GTGTGCCGGA CATGACAACA ACCAGCCTGA TTCCCTTGCT
 9232 GCCTTGTAT CTAGTCTCAA CGAGCTTGGC GAGAGACAGC TTGTACATGT GGTCAAGTGG
 9172 GCCAAGGCCT TGCCTGGCTT CCGCAACTTG CATGTGGATG ACCAGATGGC AGTCATTCAG
 9112 TATTCTGGA TGGGACTGAT GGTATTTGCC ATGGGTTGGC GGTCTTCAC TAATGTCAAC
 9052 TCTAGGATGC TCTACTTTGC ACCTGACCTG GTTTCAATG AGTATCGCAT GCACAAGTCT
 8992 CGAATGTACA GCCAGTGCCT GAGGATGAGG CACCTTCTC AAGAGTTGG ATGGCTCCAG
 8932 ATAACCCCCC AGGAATTCT GTGCATGAAA GCACTGCTAC TCTTCAGCAT TATTCCAGTG
 8872 GATGGGCTGA AAAATCAAAA ATTCTTTGAT GAACTTCGAA TGAACATACAT CAAGGAACCTT
 8812 GATCGCATCA TTGCATGCAA AAGAAAAAT CCCACATCCT GCTCAAGGCG CTTCTACCAAG
 8752 CTCACCAAGC TCCTGGATTG TGTGCAGCCT ATTGCAAGAG AGCTGCATCA ATTCACTTTT
 8692 GACCTGCTAA TCAAGTCCCA TATGGTGAGC GTGGACTTTC CTGAAATGAT GGCAGAGATC
 8632 ATCTCTGTGC AAGTGCCAA GATCCTTTCT GGGAAAGTCA AGCCCATCTA TTTCCACACCA
 8572 CAGTGA

FIG. 5

977 TAGTTATTAA TAGTAATCAA TTACGGGTC ATTAGTCAT AGCCCATATA TGGAGTTCCG
917 CGTTACATAA CTTACGGTAA ATGGCCCGCC TGGCTGACCG CCCAACGACC CCCGCCATT
857 GACGTCAATA ATGACGTATG TTCCCATAGT AACGCCATA GGGACTTTCC ATTGACGTCA
797 ATGGGTGGAG TATTTACGGT AAACGTCCC CTTGGCAGTA CATCAAGTGT ATCATATGCC
737 AAGTACGCC CCTATTGACG TCAATGACGG TAAATGGCCC GCCTGGCATT ATGCCAGTA
677 CATGACCTTA TGGGACTTTC CTACTTGGCA GTACATCTAC GTATTAGTCA TCGCTATTAC
617 CATGGTGATG CGGTTTTGGC AGTACATCAA TGGGCGTGG TAGCGGTTTG ACTCACGGGG
557 ATTTCCAAGT CTCCACCCCCA TTGACGTCAA TGGGAGTTG TTTTGGCACC AAAATCAACG
497 GGACTTTCCA AAATGTCGTA ACAACTCCGC CCCATTGACG CAAATGGCG GTAGGCGTGT
437 ACGGTGGGAG GTCTATATAA GCAGAGCTGG TTTAGTGAAC CGTCAGATC

FIG. 6

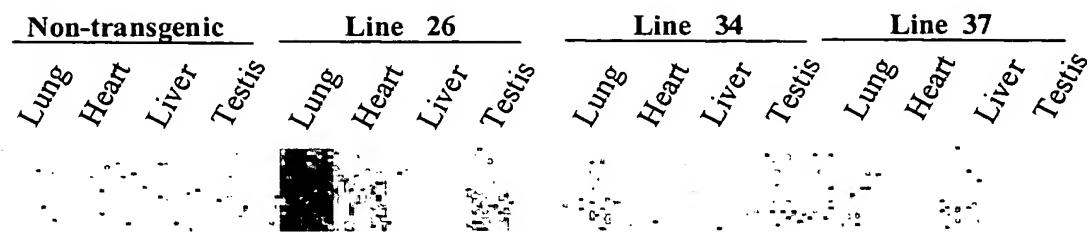


FIG. 7

FIG. 8A

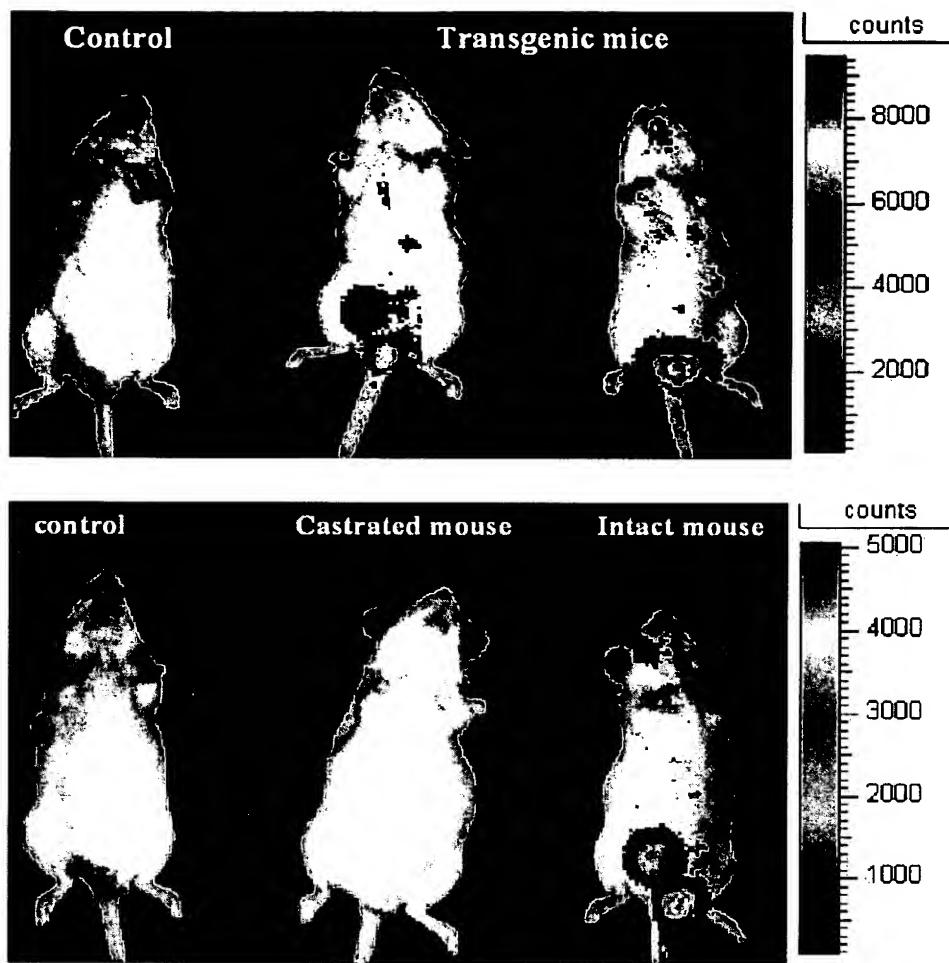


FIG. 8B

D0287 NP
12/15

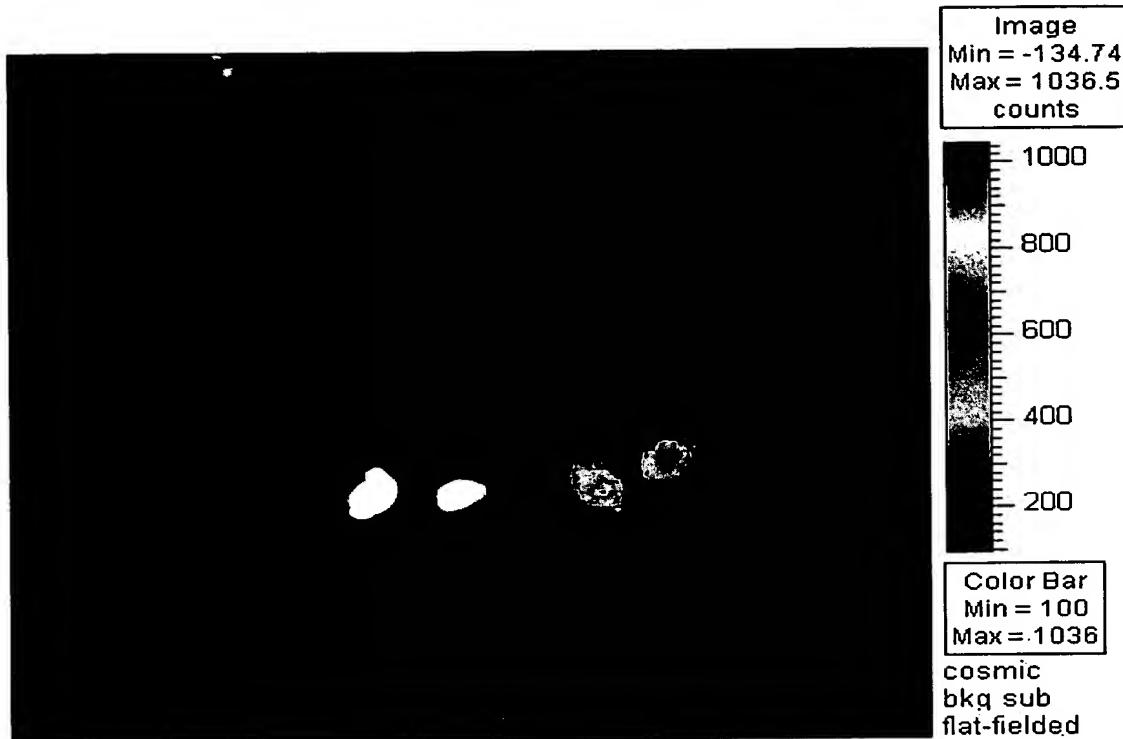


FIG. 9

FIG. 10A

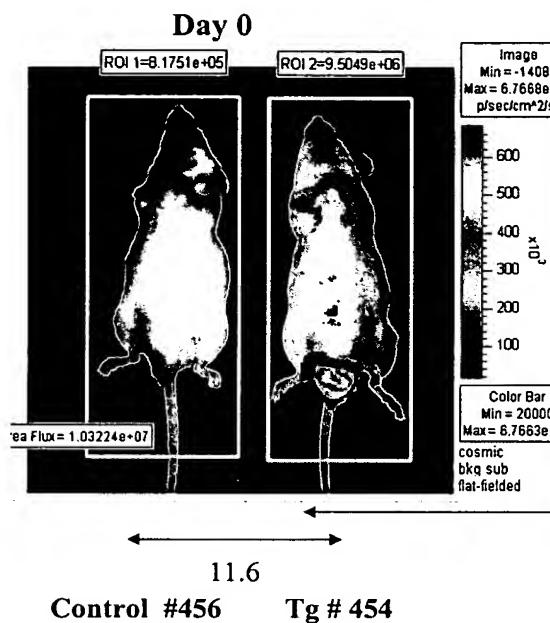


FIG. 10B

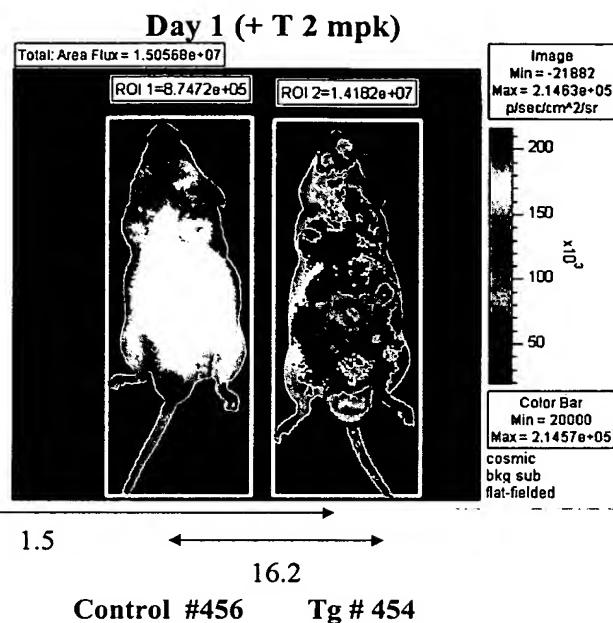


FIG. 10C

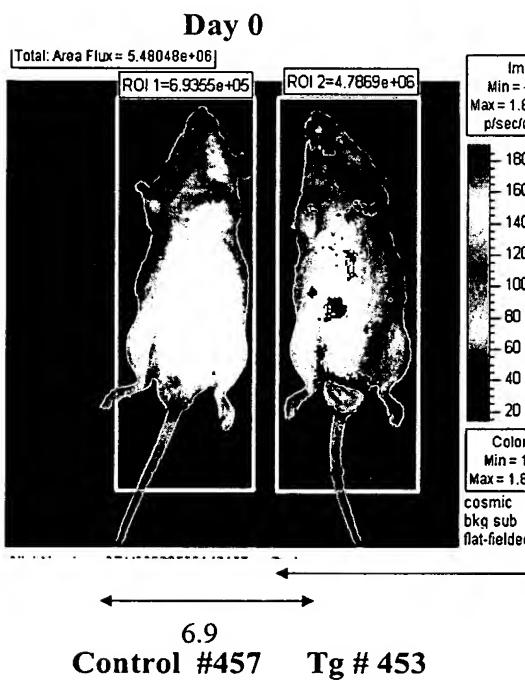
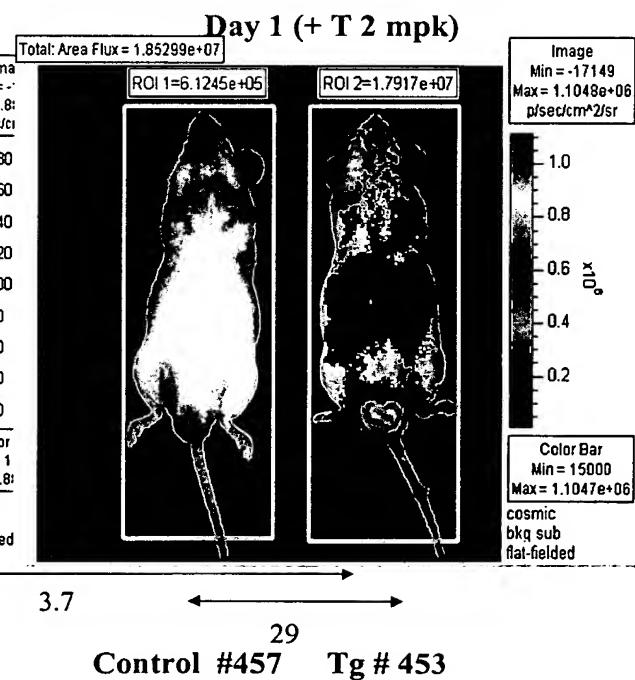


FIG. 10D



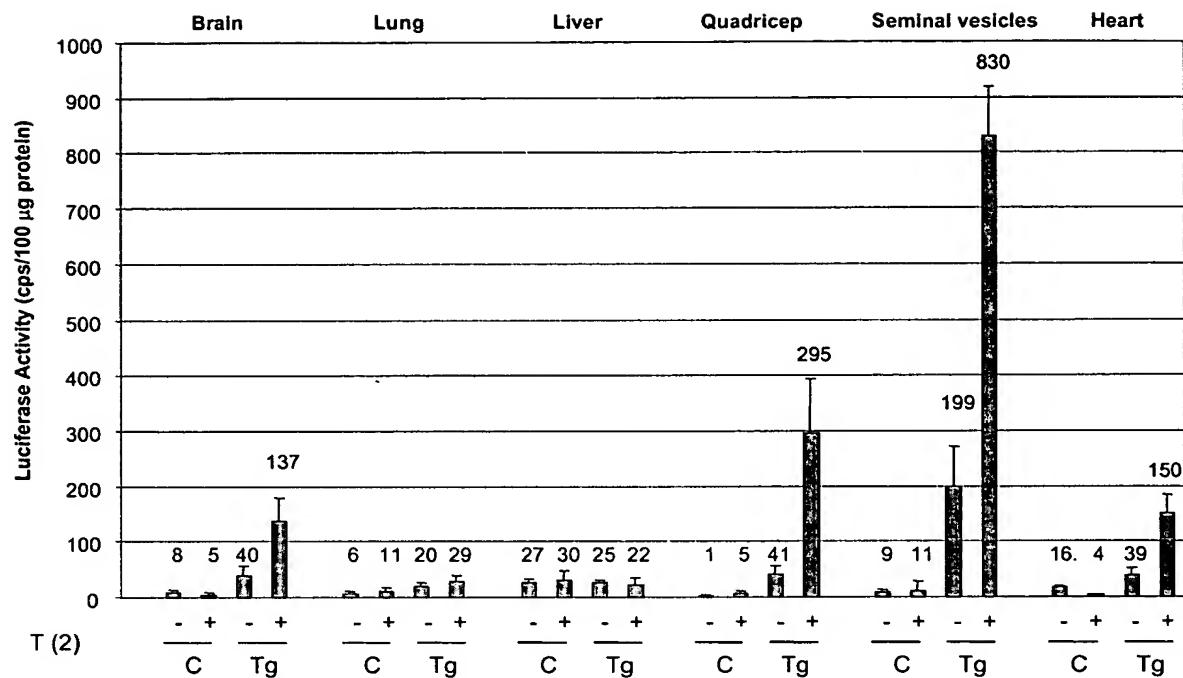


FIG. 11

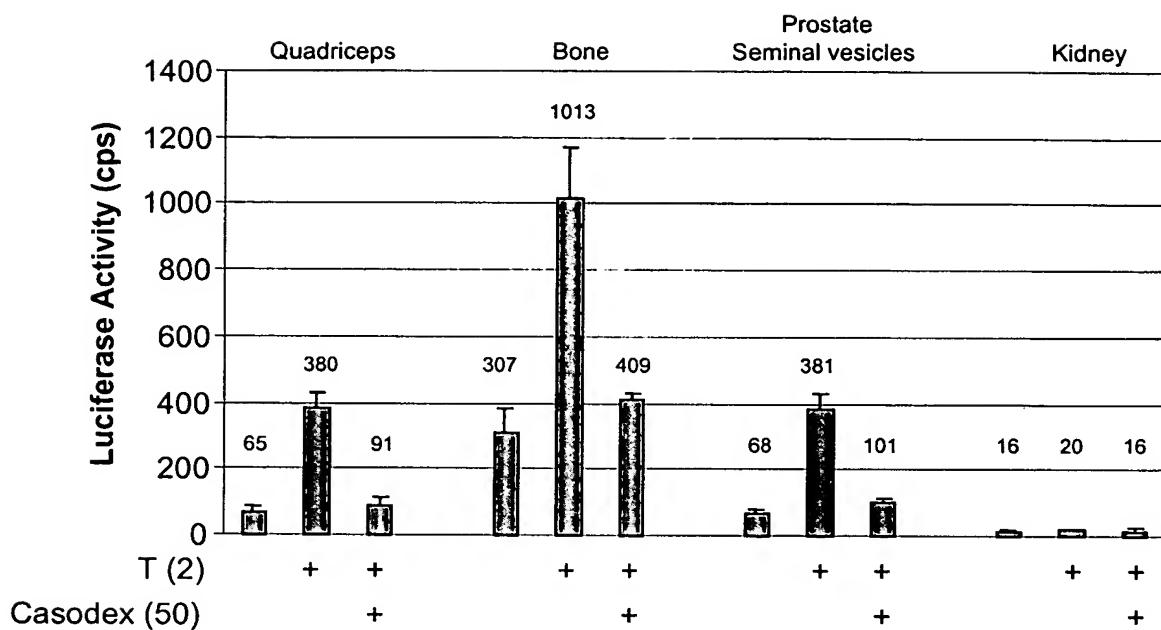


FIG. 12